



P.B.5818 - Patentlaan 2
2280 HV Rijswijk (ZH)
☎ +31 70 340 2040
TX 31651 epo nl
FAX +31 70 340 3016

Europäisches Patentamt

Zweigstelle
in Den Haag
Recherchen-
abteilung

European Patent Office

Branch at
The Hague
Search
division

Office européen des brevets

Département à
La Haye
Division de la
recherche

Roche Diagnostics GmbH
Patent Department (TR-E)
Nonnenwald 2
82377 Penzberg
ALLEMAGNE

Roche Diagnostics GmbH Patent Department (TR-E) Penzberg				
BK	11. AUG. 2004			WN
BUR				WJ
HH	HIL	JB	MI	SR

Patent Department (TR-E)		
Case 21810	Int.-Nr.	
Literatur erfasst:	Zeichen:	Datum:
Lit.sheet Endnote	SDA	11.08
<input checked="" type="checkbox"/>	<input type="checkbox"/>	2004

Datum/Date

11.08.04

Zeichen/Ref./Réf. 21810-EP-1-111	Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°. 03017561.6-2402-
Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire Roche Diagnostics GmbH, et al	

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

☒ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

☒ abstract

☒ title

☐ The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract: **NONE**

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	US 6 150 107 A (MATHIES RICHARD A ET AL) 21 November 2000 (2000-11-21)	1-6,8,9	C12Q1/68
Y	* abstract * * column 2, line 1 - column 2, line 28 * * examples 1-5 * * claims 1-28 * ---	7,10,12	
X	US 6 177 247 B1 (JU JINGYUE ET AL) 23 January 2001 (2001-01-23)	1-6,8,9	
Y	* abstract * * column 2, line 11 - column 2, line 34 * * column 3, line 46 - column 4, line 16 * * column 5, line 32 - column 5, line 45 * * column 6, line 13 - column 6, line 22 * * column 7, line 18 - column 7, line 21 * * example I * * claims 1-45 * ---	7,10,12	
X	US 5 869 255 A (JU JINGYUE ET AL) 9 February 1999 (1999-02-09)	1-6,8,9	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
Y	* abstract * * claims 1-20 * * figures 1,3 * --- -/--	7,10,12	C12Q
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 9 June 2004	Examiner Madlener, M
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	

2

EPO FORM 1503 03 82 (P04C01)



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	VET J A M ET AL: "Multiplex detection of four pathogenic retroviruses using molecular beacons" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 96, 1999, pages 6394-6399, XP002145609 ISSN: 0027-8424	1-6,8,9	
Y	* abstract * * page 6399, left-hand column * * figures 1,2 *	7,10,12	
X	JU J ET AL: "DESIGN AND SYNTHESIS OF FLUORESCENCE ENERGY TRANSFER DYE-LABELED PRIMERS AND THEIR APPLICATION FOR DNA SEQUENCING AND ANALYSIS" ANALYTICAL BIOCHEMISTRY, ACADEMIC PRESS, SAN DIEGO, CA, US, vol. 231, no. 1, 10 October 1995 (1995-10-10), pages 131-140, XP000536518 ISSN: 0003-2697	1-6,8,9	
Y	* abstract * * figures 1,3 *	7,10,12	
D,Y	US 6 369 893 B1 (CHANG RONALD ET AL) 9 April 2002 (2002-04-09) * abstract * * column 3, line 41 - column 5, line 42 * --- -/--	1-10,12	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 9 June 2004	Examiner Madlener, M
<div>CATEGORY OF CITED DOCUMENTS. X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</div>			

2

EPO FORM 1503 03.82 (P04C01)



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
D,Y	WO 97/46714 A (RASMUSSEN RANDY P ;UNIV UTAH RES FOUND (US); RIRIE KIRK M (US); WI) 11 December 1997 (1997-12-11) * abstract * * page 4, paragraph 3 - page 22, paragraph 3 * * examples 5-9 * * claims 1-126 * ----	1-10,12	
D,Y	US 6 197 520 B1 (BERNARD PHILIP ET AL) 6 March 2001 (2001-03-06) * the whole document * ----	1-10,12	
Y	US 6 140 054 A (WITTWER CARL T ET AL) 31 October 2000 (2000-10-31) * abstract * * column 12, line 57 - column 13, line 7 * ----	1-10,12	
D,Y	"Rotor-Gene 3000 Four-Channel Multiplexing System", CORBETT RESEARCH, INTERNET (CORBETT RESEARCH HOMEPAGE) XP002264359 * the whole document * ----	1-10,12	
D,A	MATTHEWS J A ET AL: "ANALYTICAL STRATEGIES FOR THE USE OF DNA PROBES" ANALYTICAL BIOCHEMISTRY, ORLANDO, FL, US, vol. 169, no. 1, 15 February 1988 (1988-02-15), pages 1-25, XP000670180 ISSN: 0003-2697 * the whole document, in particular p. 18, left column and Fig. 11 * ----- -/--	1-10,12	
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 9 June 2004	Examiner Madlener, M
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document			

2

EPO FORM 1503 03.82 (P04C01)



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
A	GLAZER ALEXANDER N ET AL: "Energy-transfer fluorescent reagents for DNA analyses" CURRENT OPINION IN BIOTECHNOLOGY, vol. 8, no. 1, 1997, pages 94-102, XP002264350 ISSN: 0958-1669 * the whole document *	1-10,12	
A	HEID C A ET AL: "REAL TIME QUANTITATIVE PCR" GENOME RESEARCH, COLD SPRING HARBOR LABORATORY PRESS, US, vol. 6, no. 10, 1 October 1996 (1996-10-01), pages 986-994, XP000642795 ISSN: 1088-9051 * the whole document *	1-12	
			TECHNICAL FIELDS SEARCHED (Int.CI.7)
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 9 June 2004	Examiner Madlener, M
<div>CATEGORY OF CITED DOCUMENTS</div> <div><div>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</div><div>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document</div></div>			

2

EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 03 01 7561

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

09-06-2004

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6150107 A	21-11-2000	US 5853992 A	29-12-1998
		AU 717018 B2	16-03-2000
		AU 4742397 A	24-04-1998
		CA 2267654 A1	09-04-1998
		EP 0935670 A1	18-08-1999
		GB 2317951 A , B	08-04-1998
		JP 2001502000 T	13-02-2001
		WO 9814612 A1	09-04-1998
US 6177247 B1	23-01-2001	US 5869255 A	09-02-1999
		US 5654419 A	05-08-1997
		US 2003143594 A1	31-07-2003
		US 6028190 A	22-02-2000
		US 6544744 B1	08-04-2003
		AT 236994 T	15-04-2003
		AU 692230 B2	04-06-1998
		AU 1736795 A	21-08-1995
		CA 2182516 A1	10-08-1995
		DE 19581489 T0	02-01-1997
		DE 29521620 U1	13-11-1997
		DE 69530286 D1	15-05-2003
		DE 69530286 T2	01-04-2004
		EP 0743987 A1	27-11-1996
		ES 2197193 T3	01-01-2004
		JP 9508525 T	02-09-1997
		WO 9521266 A1	10-08-1995
		US 5707804 A	13-01-1998
		US 5688648 A	18-11-1997
US 5869255 A	09-02-1999	US 5654419 A	05-08-1997
		US 6177247 B1	23-01-2001
		US 2003143594 A1	31-07-2003
		US 6028190 A	22-02-2000
		US 6544744 B1	08-04-2003
		AT 236994 T	15-04-2003
		AU 692230 B2	04-06-1998
		AU 1736795 A	21-08-1995
		CA 2182516 A1	10-08-1995
		DE 19581489 T0	02-01-1997
		DE 29521620 U1	13-11-1997
		DE 69530286 D1	15-05-2003
		DE 69530286 T2	01-04-2004
		EP 0743987 A1	27-11-1996
		ES 2197193 T3	01-01-2004
		JP 9508525 T	02-09-1997
		WO 9521266 A1	10-08-1995

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 03 01 7561

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

09-06-2004

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5869255	A		US 5707804 A	13-01-1998
			US 5688648 A	18-11-1997
US 6369893	B1	09-04-2002	5655815 B1	20-05-2003
			2002109844 A1	15-08-2002
			228242 T	15-12-2002
			746069 B2	11-04-2002
			4194099 A	06-12-1999
			2331678 A1	25-11-1999
			69904043 D1	02-01-2003
			69904043 T2	31-07-2003
			1080364 A1	07-03-2001
			2183563 T3	16-03-2003
			2002515602 T	28-05-2002
			9960380 A1	25-11-1999
			2003221771 A1	04-12-2003
			2003152492 A1	14-08-2003
WO 9746714	A	11-12-1997	260988 T	15-03-2004
			727296 B2	07-12-2000
			3154797 A	05-01-1998
			729644 B2	08-02-2001
			3380097 A	05-01-1998
			726501 B2	09-11-2000
			3481297 A	05-01-1998
			2256612 A1	11-12-1997
			2256773 A1	11-12-1997
			2257109 A1	11-12-1997
			69727932 D1	08-04-2004
			1179600 A1	13-02-2002
			0912760 A2	06-05-1999
			0906449 A2	07-04-1999
			0912766 A1	06-05-1999
			1033411 A2	06-09-2000
			2000512138 T	19-09-2000
			2000511435 T	05-09-2000
			2000509608 T	02-08-2000
			2000016161 A	25-03-2000
			2000016326 A	25-03-2000
			333135 A	28-02-2000
			333136 A	27-03-2000
			333137 A	27-03-2000
			502323 A	28-09-2001
			9746707 A2	11-12-1997
			9746712 A2	11-12-1997
			9746714 A1	11-12-1997

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 03 01 7561

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

09-06-2004

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 9746714	A		US	2004002098 A1	01-01-2004
			US	6245514 B1	12-06-2001
			US	6232079 B1	15-05-2001
			US	2002058258 A1	16-05-2002
			US	6174670 B1	16-01-2001
<hr/>					
US 6197520	B1	06-03-2001	AT	239095 T	15-05-2003
			AU	6635500 A	13-03-2001
			DE	60002424 D1	05-06-2003
			DE	60002424 T2	18-03-2004
			EP	1121459 A2	08-08-2001
			ES	2199172 T3	16-02-2004
			JP	2003507696 T	25-02-2003
			WO	0112854 A2	22-02-2001
<hr/>					
US 6140054	A	31-10-2000	AU	6280599 A	17-04-2000
			EP	1117834 A1	25-07-2001
			JP	2002525128 T	13-08-2002
			WO	0018965 A1	06-04-2000
<hr/>					